

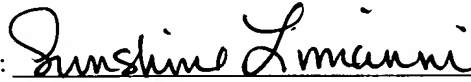
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Henry W. White et al.
Application Number: To be assigned
Filing Date: Herewith
Title: A Hybrid Beam Deposition System and Methods for
Fabricating Metal Oxide-ZnO Films, P-Type ZnO Films,
and ZnO-Based II-VI Compound Semiconductor Devices
Group Art Unit: Not yet known
Examiner: Not yet known
Attorney Docket: MOXT-002-US

Certificate of Express Mailing

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Signature of person mailing correspondence:


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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT AND PTO
FORM 1449

MAIL STOP PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir,

Pursuant to the duty of disclosure (37 C.F.R. 1.97 and 1.98), attached hereto are:

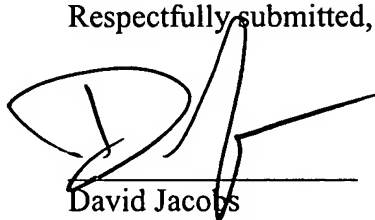
1. An Information Disclosure Statement (PTO 1449) (1 page) listing documents (15 documents total);
2. A copy of the PCT International Search Report (dated August 23, 2004) and Written Opinion (dated November 22, 2004) for International Application No. PCT/US03/27143 (12 pages); and
3. A copy of the cited documents.

Because the documents are in the English language, a concise explanation of the relevance is not provided. Because this paper is being filed prior to the 1st Office Action, no fee is believed to be due at this time.

However, should the PTO determine that a fee is required; the PTO is hereby authorized to charge such fee, and any other required fee to Gesmer Updegrove, LLP PTO Deposit Account No. 122315.

If additional information is required, you are invited to immediately contact the undersigned via telephone or facsimile at the numbers listed below. Thank you for your attention to this matter.

Respectfully submitted,



Date: February 23, 2005

David Jacobs
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Gesmer Updegrove, LLP
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	To be assigned	10/525619
Filing Date	Herewith	
First Named Inventor	Henry W. White et al.	
Art Unit	To be assigned	
Examiner Name	To be assigned	
Attorney Docket Number	MOXT-002-US	

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	MM-DD-YYYY			
		EP 0591 607 A2	04/13/1994	Mitsubishi Denki Kabushiki Kaisha		
		EP 1 054 082 A1	11/22/2000	Stanley Electric Co., Ltd.		
		EP 1 081 256 A2	03/07/2001	Stanley Electric Co., Ltd.		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, Washington, DC 20231.**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

Application Number	To be assigned
Filing Date	Herewith
First Named Inventor	Henry W. White et al.
Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	MOXT-002-US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*			T ²
		Ko, H.J. et al. "Photoluminescence properties of ZnO epilayers grown on CaF ₂ (111) by plasma assisted molecular beam epitaxy." Applied Physics Letters, Volume 76, Number 14, April 3, 2000, pp. 1905-1907.	
		Ryu, Y.R. et al. "Properties of arsenic-doped p-type ZnO grown by hybrid beam deposition." Applied Physics Letters, Volume 83, Number 1, July 7, 2003, pp. 87-89.	
		Ryu, Y.R. et al. "Synthesis of p-type ZnO films." Journal of Crystal Growth, 216 (2000), pp. 330-334.	
		Kumano, H. et al. "Luminescence properties of ZnO films grown on GaAs substrates by molecular-beam epitaxy excited by electron-cyclotron resonance oxygen plasma." Journal of Crystal Growth 214/215 (2000), pp. 280-283.	
		López, J. García et al. "Role of the oxygen plasma during in situ growth of YBa ₂ Cu ₃ O _{6+x} thin films by pulsed laser deposition." Physica C 307 (1998), pp. 298-306.	
		Tsurumi, Takaaki et al. "Electric Properties of Zinc Oxide Epitaxial Films Grown by Ion-Beam Sputtering with Oxygen-Radical Irradiation." Japanese Journal of Applied Physics, Vol. 38 (1999), pp. 3682-3688.	
		Ryu, Y.R. et al. "Fabrication of homostructural ZnO p-n junctions." Journal of Crystal Growth 219 (2000), pp.419-422.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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